



PLASMA MONITOR

Please read this owner's manual carefully before operating the Monitor.
Retain it for future reference.
Record model number and serial number of the Monitor.
See the label attached on the back of the Monitor and quote this information to your dealer when you require service.

Model number :
Serial number :

MU-60PZ10
MU-60PZ10A
MU-60PZ10B
MU-60PZ10K
MU-60PZ10S

OWNER'S MANUAL

P/NO : 3828VA0277J
(NP00KA)



FCC NOTICE

- **MU-60PZ10/A/B/K/S : A Class B digital device**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The explanation about colored dots may be present on PDP screen

The PDP which is the display device of this product is composed of 0.9 to 2.2 million cells and a few cell defects can occur in the manufacture of the PDP. Several coloured dots visible on the screen would be acceptable, in line with other PDP manufacturers and would not mean that the PDP is faulty. We hope you will understand that the product which corresponds to this standard is regarded as acceptable. It means that it could not be changed or refunded.

We promise that we'll do our best to develop our technology to minimize the cell defects.

The explanation about noise of 60" PDP

In the same way that a fan is used in a PC to keep the CPU cool, the PDP is equipped with cooling fans to improve the reliability of this product. Therefore, a certain level of noise could occur when the fan is operated. This noise doesn't have any negative effect on its efficiency and liability and it's also determined to have no difficulty while using this product. The noise from the fans is normal in the operation of this product. We hope you will understand that a certain level of noise is acceptable. It means that it is not changeable nor refundable.

Earth wire should be connected.

- If the earth wire is not connected, there is possible a danger of electric shock caused by the current leakage.
- If grounding methods are not possible, a separate circuit breaker should be employed and installed by a qualified electrician.
- Do not connect ground to telephone wires, lightning rods or gas pipe.

WARNING

TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.



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Keep this manual
with Monitor for
future easy refer-
ence)

WARNINGS



WARNING

RISK OF ELECTRIC SHOCK
DO NOT OPEN



WARNING:

TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

CAUTION:

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT

SAFETY INSTRUCTIONS

Important safeguards for you and your new product

Your product has been manufactured and tested with your safety in mind. However, improper use can result in potential electrical shock or fire hazards. To avoid defeating the safeguards that have been built into your new product, please read and observe the following safety points when installing and using your new product, and save them for future reference.

Observing the simple precautions discussed in this booklet can help you get many years of enjoyment and safe operation that are built into your new product.

This product complies with all applicable U.S. Federal safety requirements, and those of the Canadian Standards Association.

1. Read Instructions

All the safety and operating instructions should be read before the product is operated.

2. Follow Instructions

All operating and use instructions should be followed.

3. Retain Instructions

The safety and operating instructions should be retained for future reference.

4. Heed Warnings

All warnings on the product and in the operating instructions should be adhered to.

5. Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

6. Water and Moisture

Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.

7. Accessories Carts and Stands

Do not place this product on a slippery or tilted surface, or on an unstable cart, stand, tripod, bracket, or table. The product may

slide or fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

8. Transporting Product

A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.



9. Attachments

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

10. Ventilation

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered.

(Continued on next page)

SAFETY INSTRUCTIONS

(Continued from previous page)

The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

11. Power Sources

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

12. Power-Cord Polarization

This product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

13. Power-Cord Protection

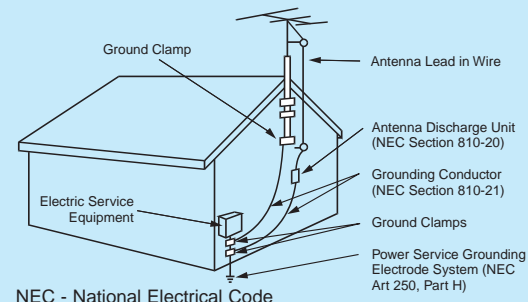
Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

14. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code (U.S.A.), ANSI/ NFPA 70 provides information with regard to proper grounding of the mast and

supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Example of Grounding According to National Electrical Code Instructions



15. Lightning

For added protection for this product (receiver) during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

16. Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

17. Overloading

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

18. Object and Liquid Entry

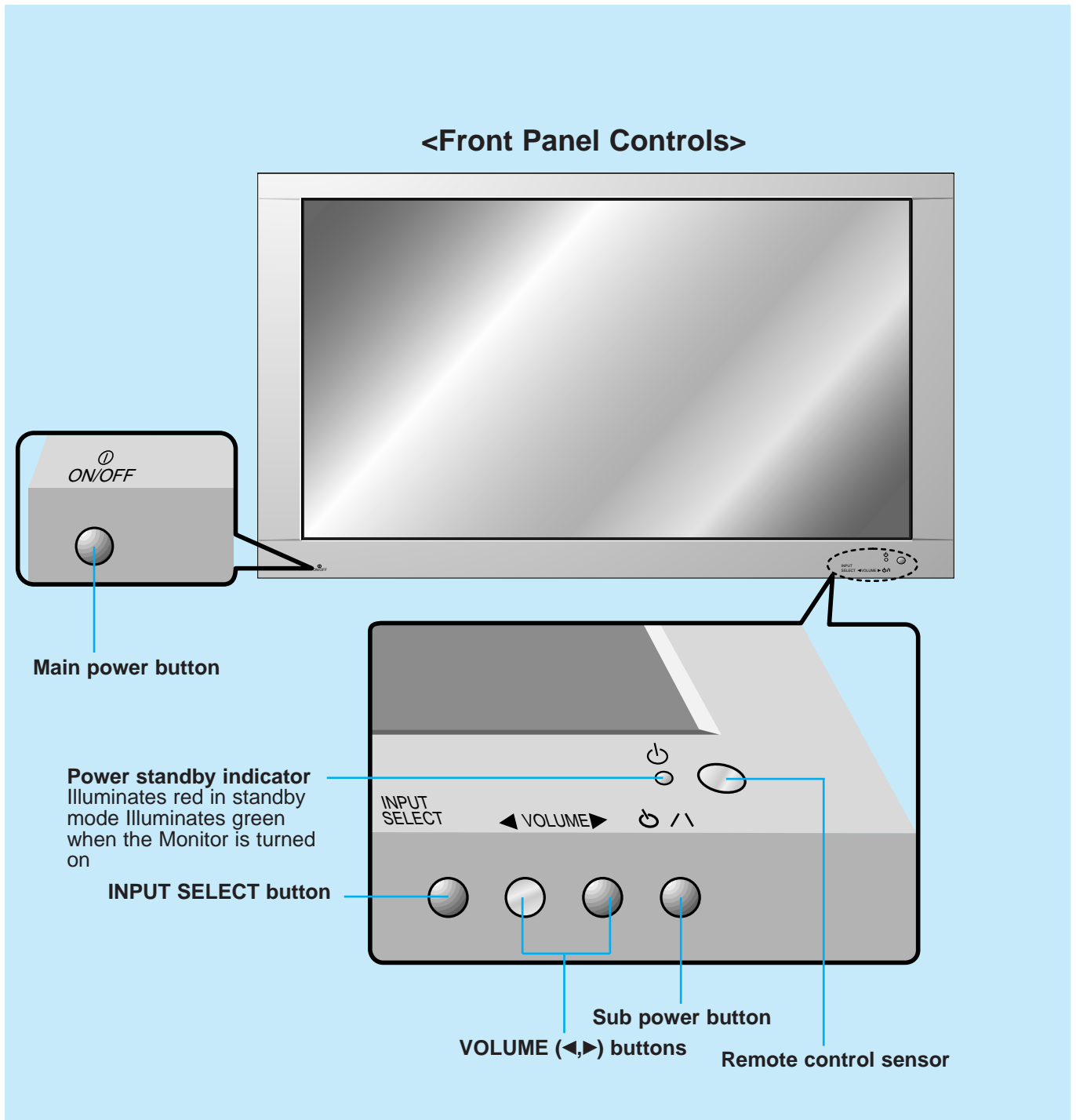
Never push objects of any kind into this



product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.	
19. Servicing	
Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.	
20. Damage Requiring Service	
Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:	
<ul style="list-style-type: none">a. If the power-supply cord or plug is damaged.b. If liquid has been spilled, or objects have fallen into the product.c. If the product has been exposed to rain or water.d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.e. If the product has been dropped or the cabinet has been damaged.f. If the product exhibits a distinct change in performance.	
21. Replacement Parts	
When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.	
22. Safety Check	
Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.	
23. Wall or Ceiling Mounting	
The product should be mounted to a wall or ceiling only as recommended by the manufacturer. The product may slide or fall, causing serious injury to a child or adult, and serious damage to the product.	
24. Heat	
The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.	

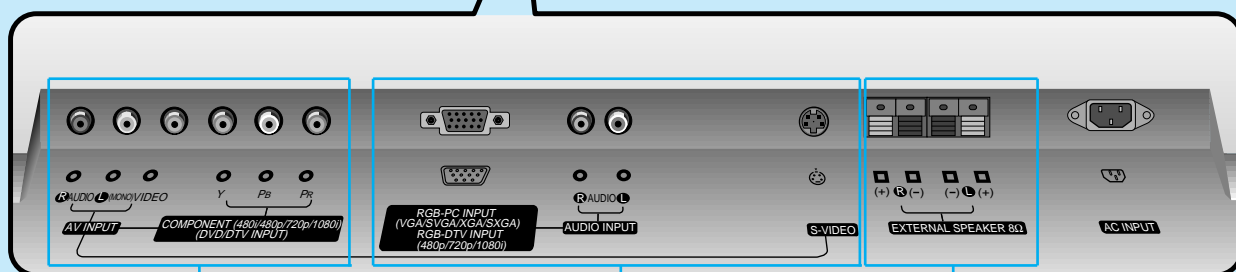
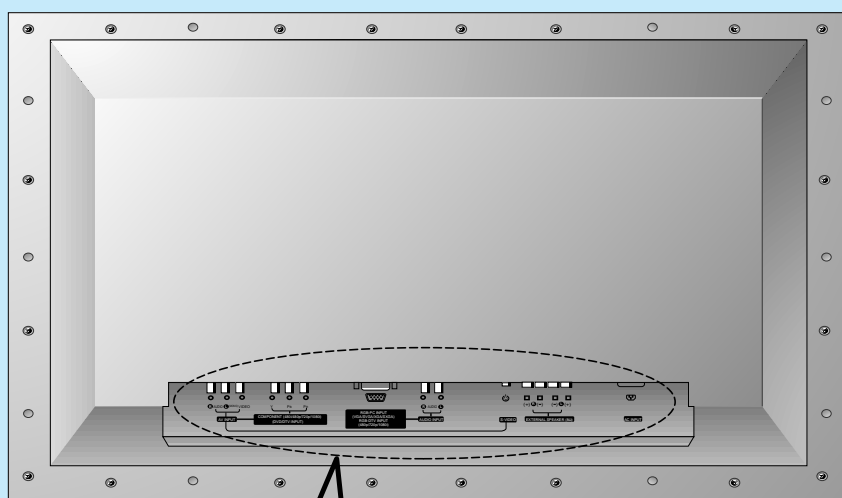
Safety instructions	
Monitor Overview	
Connections	
Basic operation	
Sleep timer	
Picture & Sound	
Special features	
Others	

Front Panel Controls



Connection Panel Overview

<Back Panel>



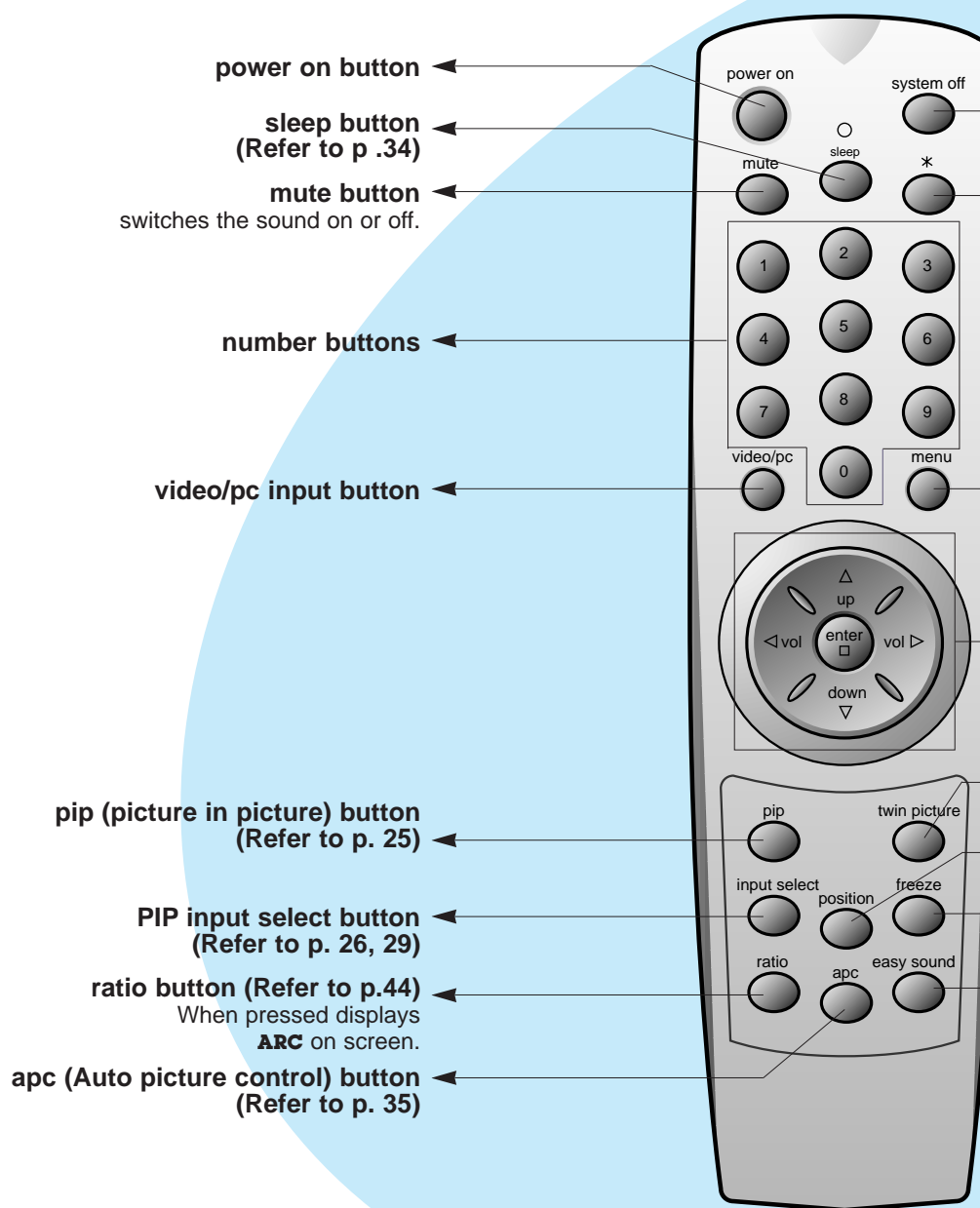
**AV INPUT /
COMPONENT (480i/480p/720p/1080i)
DVD/DTV INPUT jacks**

**RGB-PC INPUT (VGA/SVGA/XGA/SXGA)
RGB-DTV INPUT (480p/720p/1080i) /
AUDIO INPUT jacks**

**EXTERNAL SPEAKER
(8 ohm output)**

Remote Control Key Functions/Accessories

- When using the remote control aim it at the remote control sensor on the Monitor.



→ system off button

→ No function

→ menu button

→ enter button
up/down buttons
vol buttons

→ twin picture button (Refer to p. 28)
When pressed displays **DW** on screen.

→ position button for PIP
(Refer to p. 26)

→ freeze button (Still frame)
(Refer to p. 42)

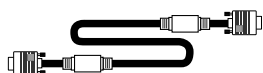
→ easy sound button (Refer to p. 40)
When pressed displays **DASP** on screen.

video/pc button on the remote control

Each press of this button changes the mode as shown below.



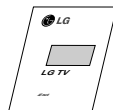
Accessories



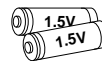
D-sub 15 pin cable



Power cord



Owner's Manual



Alkaline batteries

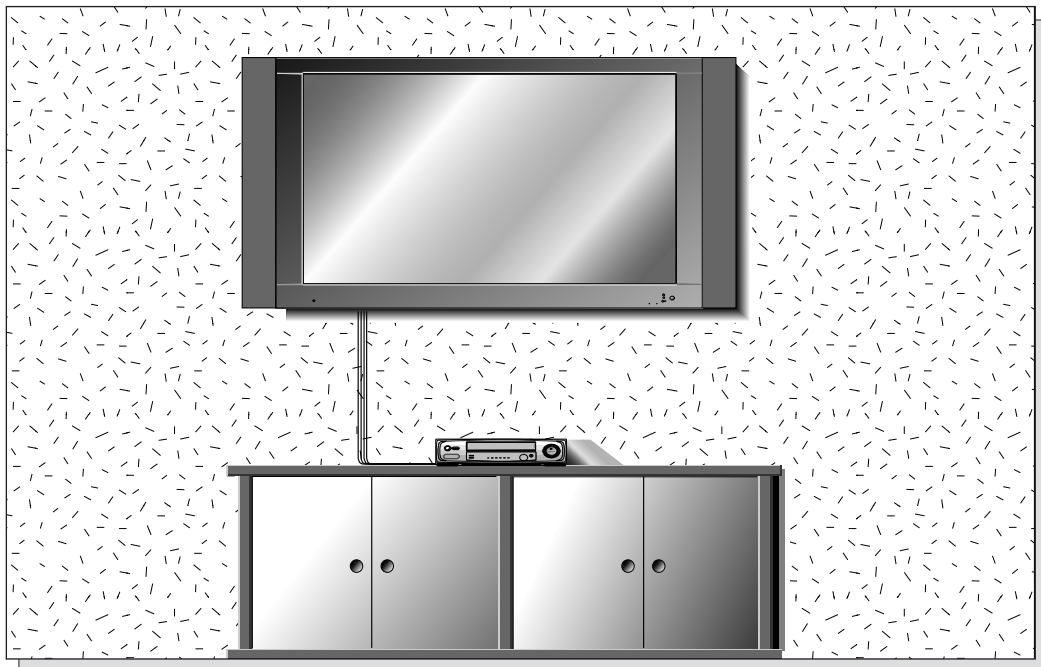


Remote control

Monitor Installation

- It is recommended that this product only be used at an altitude of less than 6562 feet (2000m) to get the best quality picture and sound.
- Your MU-60PZ10/A/B/K/S (Monitor) can be installed on a wall as shown below, or on a desktop pedestal as shown on the next page. Wall mount and stands are optional, and are not supplied with the monitor.
- This plasma display is designed to be mounted horizontally (wide viewing).

Wall Mount Installation




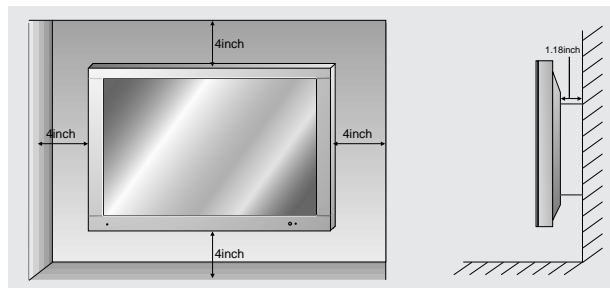
- The monitor can be installed on the wall as shown above.
(For further information, refer to the optional 'Tilt) wall mounting bracket Installation and Setup Guide'.)
- Speakers are optional, and shown for illustration only.



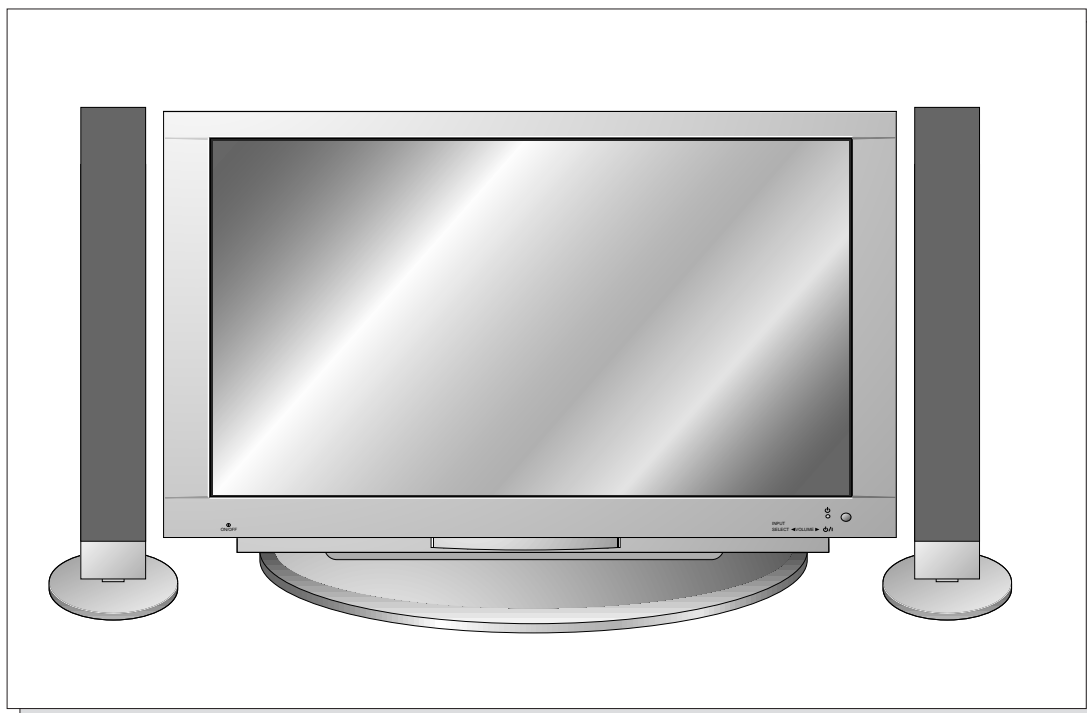
Tips

- Install this monitor only in a location where adequate ventilation is available.


a. 
(Wall mount minimum
allowable clearances
for adequate ventilation)

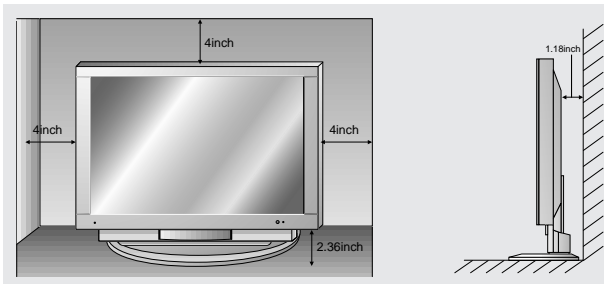


Desktop Pedestal Installation



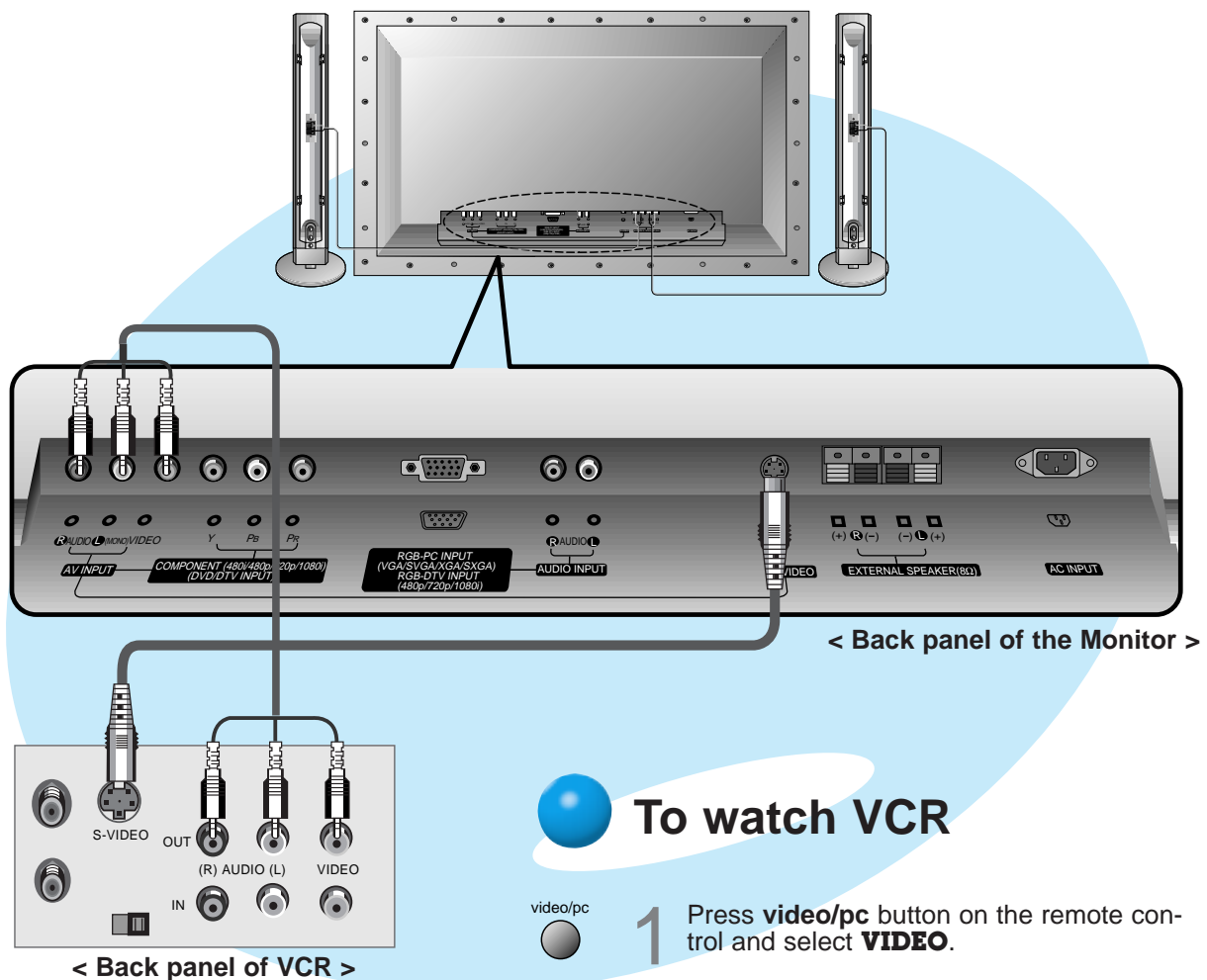
- The Monitor can be installed on a desk as shown above.
(For further information, refer to the optional 'Desktop Stand Installation and Setup Guide'.)
- Speakers shown are optional, and shown for illustration only.

b.  (Pedestal mount minimum allowable clearances for adequate ventilation)



VCR Setup

- As shown below, when connecting the Monitor to a VCR, match the colors of AV input jacks on the Monitor with the output jacks on the VCR: Video = yellow, Audio (Left) = white, Audio (Right) = red.
- If you have a mono VCR, connect the audio cable from the VCR to the AUDIO(L/MONO) input of the Plasma Monitor.
- If you connect an S-VIDEO VCR to the S-VIDEO input, the picture quality is improved, compared to connecting a regular VCR to the Video input.
- Avoid having a fixed image remain on the screen for a long period of time. A frozen still picture from a VCR (or if a CH label is displayed) displayed on the screen for prolonged periods will result in an image ghost remaining even when you change the image. Avoid prolonged display of a still image.



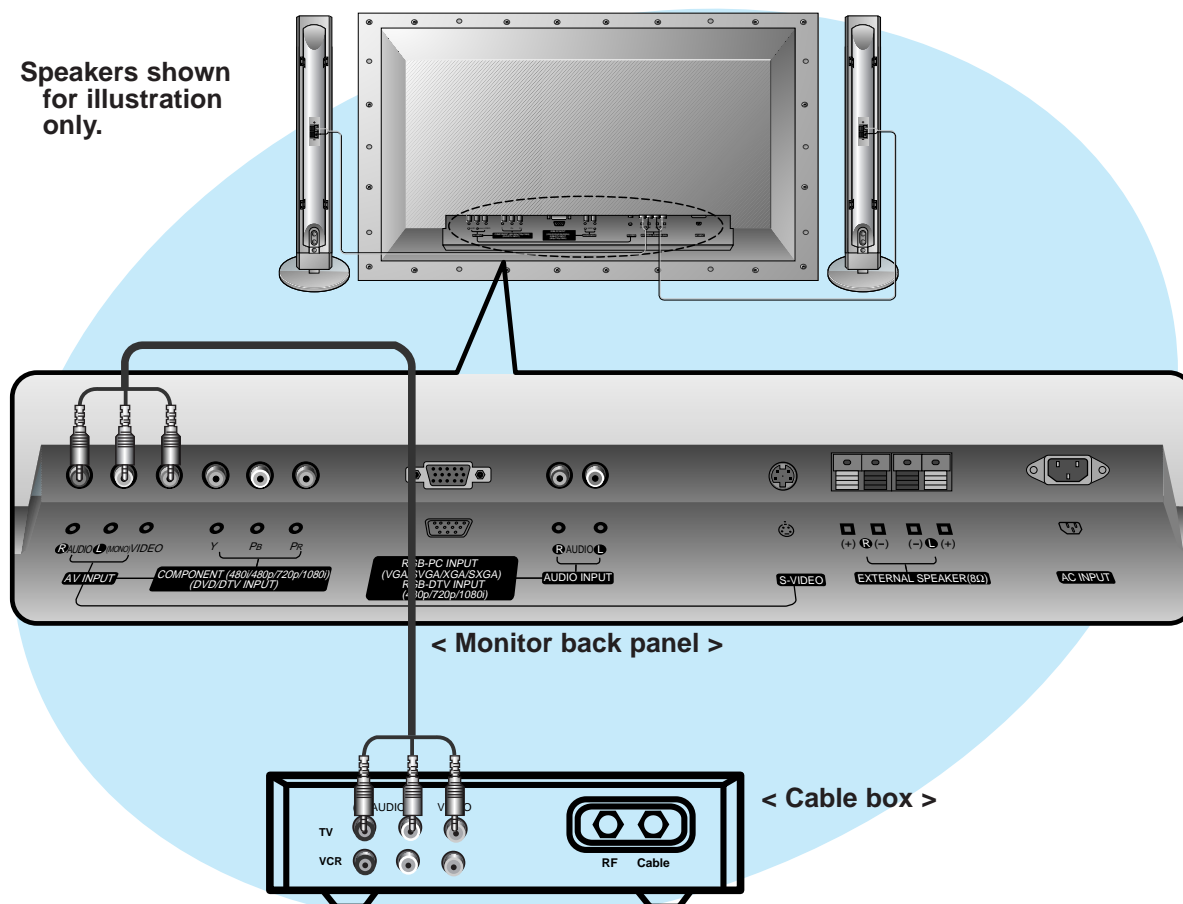
Tips

- To avoid picture noise (interference), leave an adequate distance (20 inches or more) between the VCR and monitor.

Cable TV Setup

- After subscribing to a cable TV service from a local provider and installing a converter, you can watch cable TV programming. This monitor cannot display TV programming without a TV tuner or cable TV converter box.

Speakers shown for illustration only.



To watch cable TV

- 1 Press **video/pc** button on the remote control and select **VIDEO** source.

video/pc



- 2 Tune to cable service provided channels using the cable box.

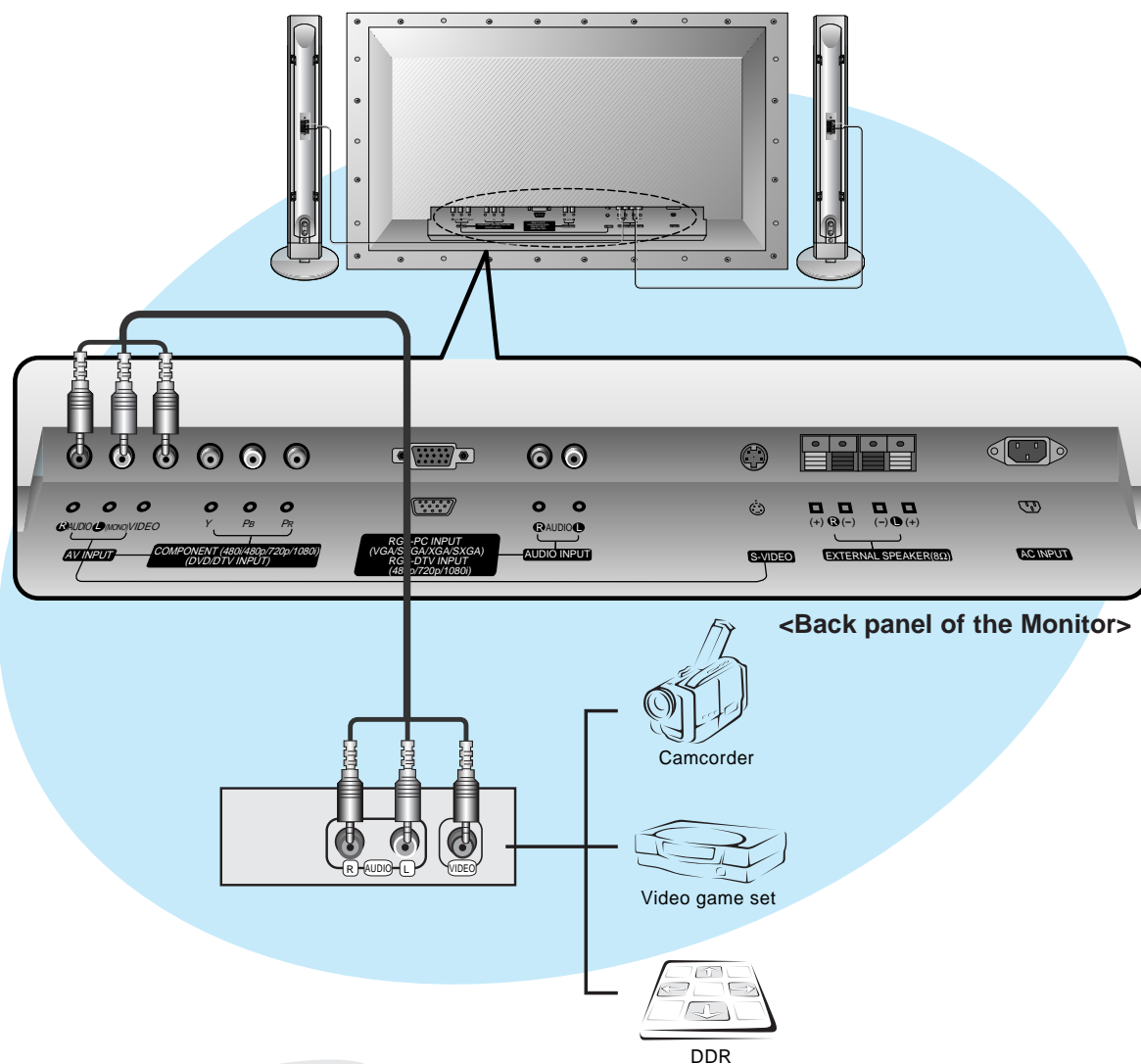


Tips

- For further information regarding cable TV service, contact your local cable TV service provider(s).

External AV Source Setup

- As shown below, when connecting the Monitor to an external source, match the colors of AV input jacks on the Monitor with the output jacks on the audio/video equipment: Video = yellow, Audio (Left) = white, Audio (Right) = red.



To watch external AV source

- 1 Press **video/pc** button on the remote control of the monitor to select **VIDEO**.

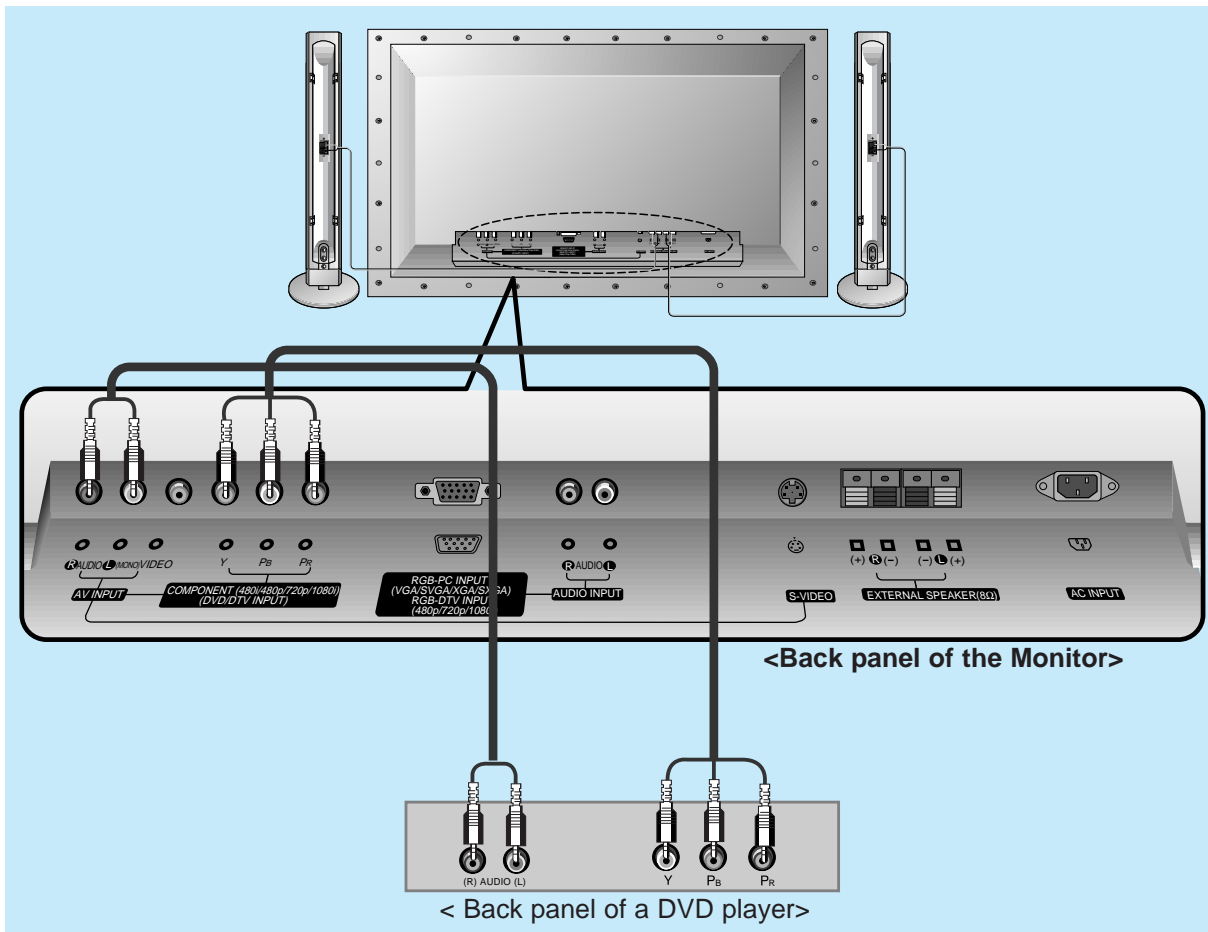


- 2 Operate the corresponding external equipment. See external equipment operating guide.

DVD Setup

How to connect a DVD (digital video disk player)

- Connect DVD video inputs to Y, P_B, P_R of COMPONENT (480i/480p/720p/1080i) (DVD/DTV INPUT) and audio inputs to Audio jacks of AV INPUT.



How to use

- Turn on the DVD player, and insert a DVD.
- Press **video/pc** button on the remote control of the monitor to select **COMPONENT**. Use the DVD player according to its owner's manual.

- Component Input ports**
Connect DVD player jacks to Monitor Component input jacks as indicated below.

Component input jacks on the Monitor	Y	P _B	P _R
--------------------------------------	---	----------------	----------------

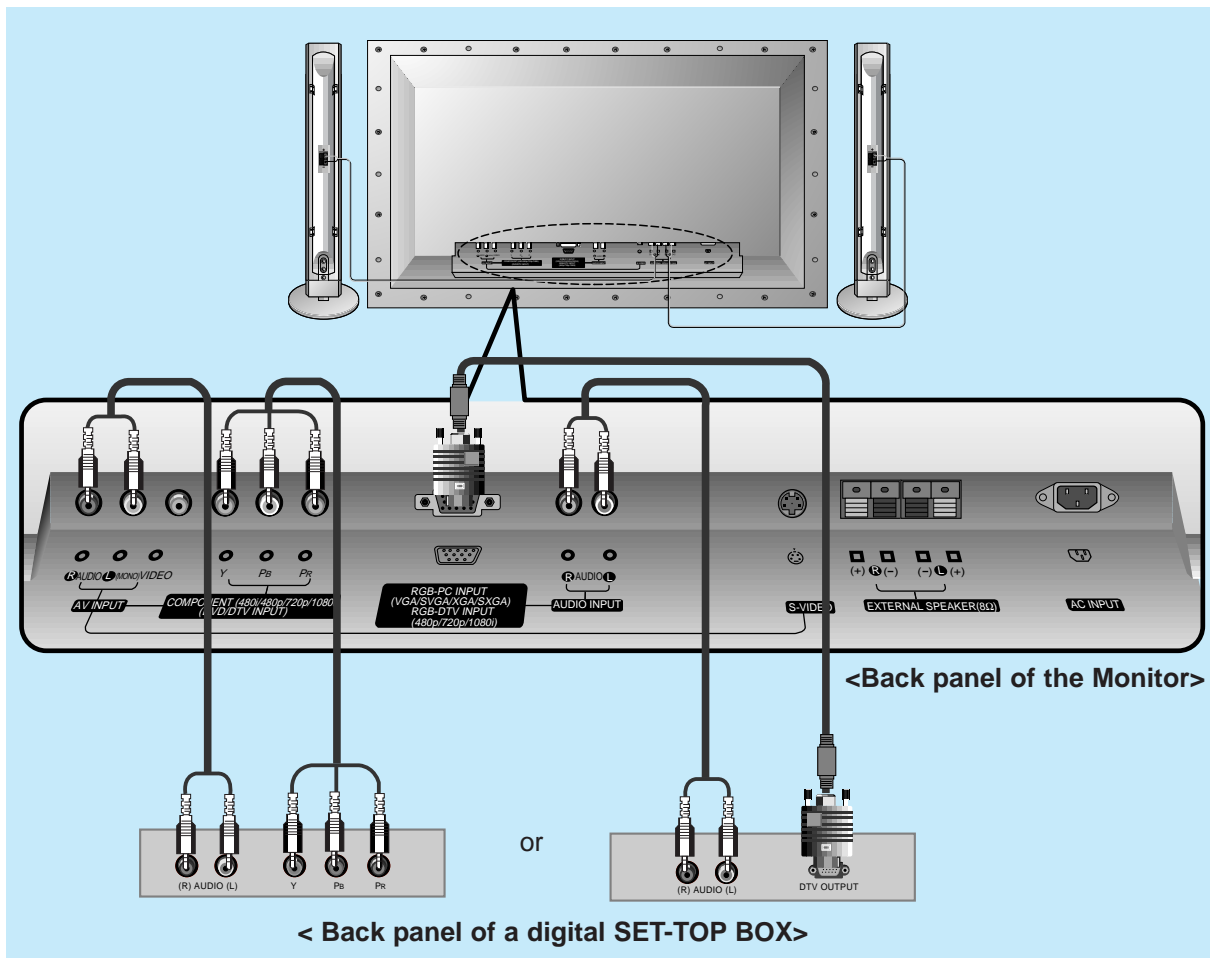
Video output jacks of DVD player	Y	P _b	P _r
	Y	B-Y	R-Y
	Y	Cb	Cr
	Y	P _B	P _R

DTV Setup

- To watch digitally broadcast programs, purchase/connect a digital SET-TOP BOX.
- You can select only the 16:9 picture format in DTV 720p/1080i mode.

How to connect a user-supplied Digital Set-top Box

- You can use either the Monitor's COMPONENT (Y, P_b, P_r) inputs or the single RGB-DTV INPUT for video connections, depending on your Set Top Box connectors. Then, make the corresponding Audio connections. See the diagram below for either set up.



How to use

- Turn on the digital SET-TOP BOX.
(Refer to the owner's manual for the digital SET-TOP BOX.)
- Press **video/pc** button on the remote control to select **COMPONENT** or **RGB**.

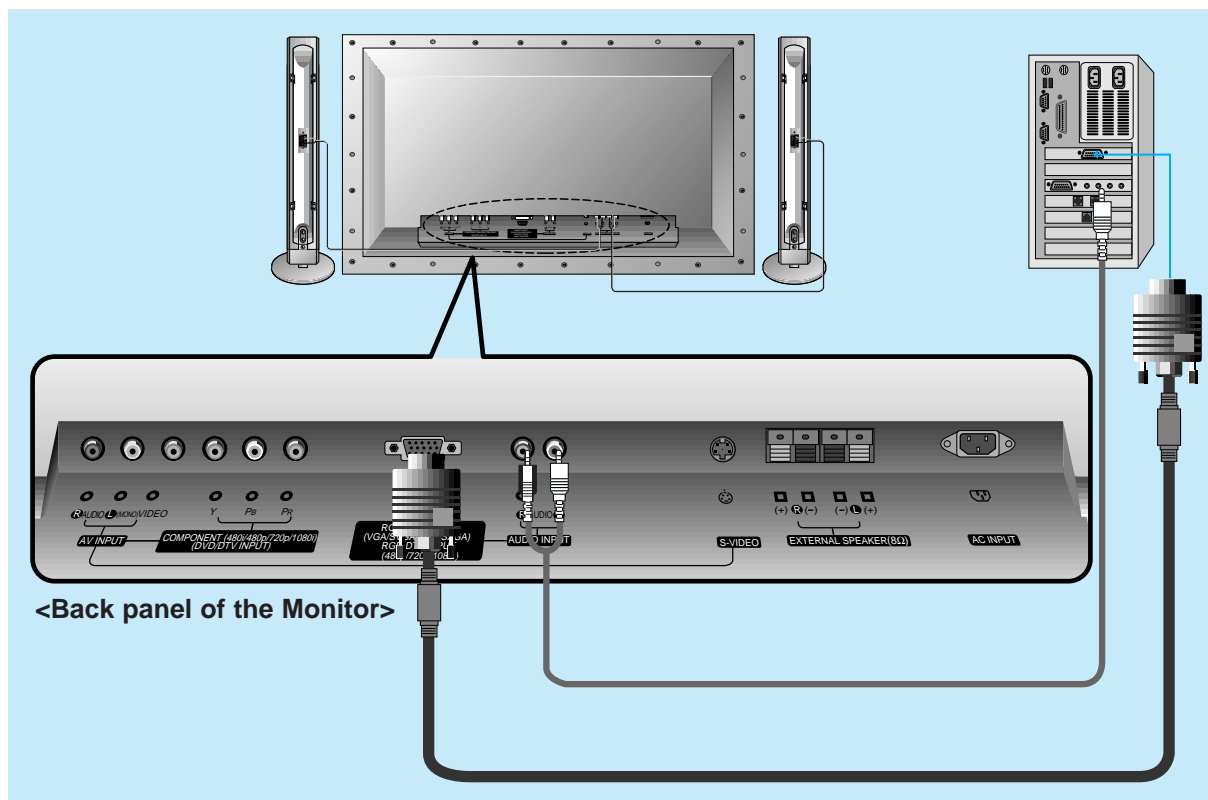
PC Setup

- See your computer's image on the monitor.

How to connect

Make the connections shown in the illustration below.

- Set the computer video output to under SXGA (1280x1024) or lower resolution. (If the video output of the PC is not compatible with the Monitor, no picture will appear on the Monitor. See page 20.)
- As shown below, connect the video output of the PC to the Monitor RGB-PC INPUT(VGA/SVGA/XGA/SXGA) RGB-DTV INPUT(480p/720p/1080i).
- Connect the audio out from the PC to the Audio jacks on the Monitor. (Audio cables not included with the Monitor)
- **If available, adjust PC sound to your preference.**
- To setup this monitor in your PC Windows environment, select Normal, Standard or Default monitor. This monitor does not support Plug and Play function.



How to use

video/pc



<On the remote control>



Tips

- Avoid prolonged display of a still image, as it may cause a permanent image to remain even after you change the image.

- Press **POWER** button on the PC and press **ON/OFF** button on the Monitor. After this press $\odot/|$ button on the Monitor or press **power on** button on the remote control.
- Press **video/pc** button on the remote control to select **RGB**.
- Set the resolution of PC to SXGA (1280x1024, 75Hz) or lower. (Refer to page 20.)



Monitor Image Display Specifications

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
640x350	31.468	70.09
	37.861	85.08
720x400	31.469	70.08
	37.927	85.03
640x480	31.469	59.94
	35.000	66.66
	37.861	72.80
	37.500	75.00
	43.269	85.00
	45.913	90.03
	53.011	100.04
	64.062	120.00
800x600	35.156	56.25
	37.879	60.31
	48.077	72.18
	46.875	75.00
	53.674	85.06
	56.000	90.00
	64.016	100.00
832x624	49.725	74.55
1024x768	48.363	60.00
	56.476	70.06
	60.023	75.02
	68.677	84.99
1152x864	54.348	60.05
	63.995	70.01
	67.500	75.00
	77.487	85.05
1152x870	68.681	75.06
1280x960	60.000	60.00
	75.000	75.00
1280x1024	63.981	60.02
	79.976	75.02

PC Mode Feature Check (Overview)

- Select **RGB** first, see page 11.
- Make sure the PC and monitor are both turned on.
- Use the monitor's remote control to make adjustments.



1

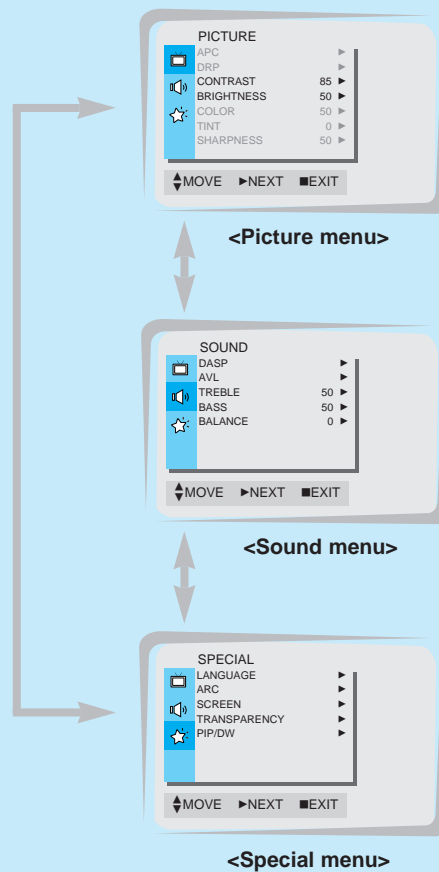
Press the **menu** button to show a menu on screen.



2

Press the **up(▲)** or **down(▼)** button to select a menu.

- Each press will cycle through the different menus as shown below.



3

Press the **vol (▶)** button and then press the **up/down** or **vol** buttons to select a feature you want to use.

- Press the **enter** button to exit menus.

PC Mode Adjustments

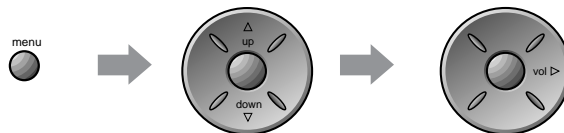


Auto adjustment

- Automatically adjusts picture position and eliminates any image shaking.

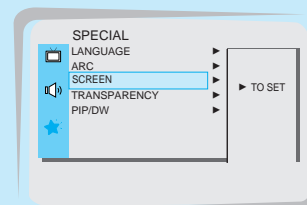
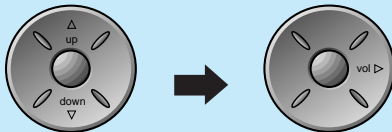


Press the **menu** button and then press the **up/down** button to select the **SPECIAL** menu. Press the **vol (▶)** button.



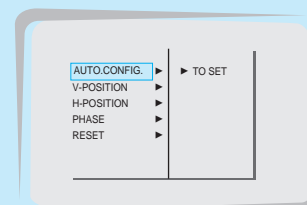
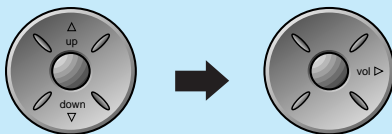
1

Press the **up/down** buttons to select **SCREEN** and then press the **vol (▶)** button.



2

Press the **up/down** buttons to select **AUTO.CONFIG.** and then press the **vol (▶)** button.



- When **AUTO.CONFIG.** has finished, "**OK**" will be shown on screen.
- If the position of the image is incorrect, try Auto adjustment again.

3

If picture needs to be adjusted more after Auto adjustment, you can manually adjust the image position and **PHASE**.



Tips

- If the image is still not correct, your Monitor is functioning properly but needs further adjustment.

Adjusting horizontal / vertical position manually

- Only adjust **V-POSITION** and **H-POSITION** in DTV or component 480p/720p/1080i.

READY

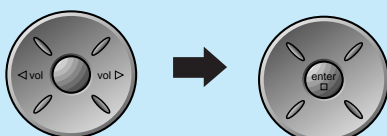
Press the **menu** button and then press the **up/down** button to select the **SPECIAL** menu. Press the **vol (▶)** button.

1 Press the **up/down** buttons to select **SCREEN** and then press the **vol (▶)** button.

2 Press the **up/down** buttons to select **V-POSITION** or **H-POSITION** and then press the **vol (▶)** button.

3 Press the **vol** buttons to adjust until you get desired horizontal or vertical position and then press the **enter** button to remove menus.


- The adjustment range of **V-POSITION** is -50 ~ +50.
- The adjustment range of **H-POSITION** is -100 ~ +100.
- Based on the input mode, the adjustment range of **V-POSITION/H-POSITION** may change.
- Based on the input signal, the position of the picture may not change even though you have adjusted the horizontal or vertical position with this function.

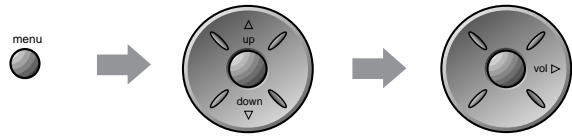


PC Mode Adjustments

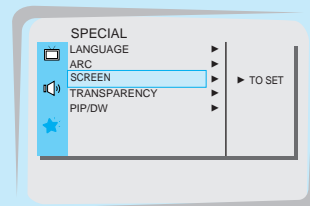
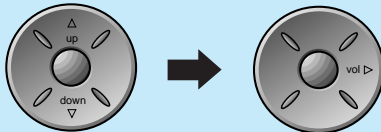
Picture Phase Adjustments

- If the picture isn't clear after auto adjustment and especially if the characters are still trembling, then adjust the picture phase manually.
- When watching PIP/TWIN PICTURE, the **SCREEN** menu option is not available.

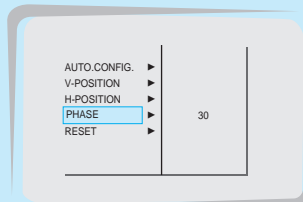
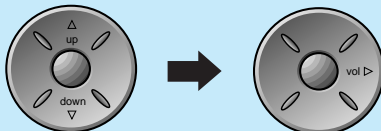
 Press the **menu** button and then press the **up/down** button to select the **SPECIAL** menu. Press the **vol (▶)** button.



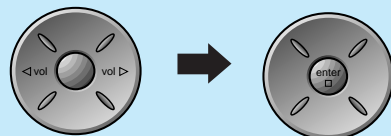
- 1 Use the **up/down** buttons to select **SCREEN** and then press the **vol (▶)** button.



- 2 Use the **up/down** buttons to select **PHASE** and then press the **vol (▶)** button.



- 3 Press the **vol** buttons to adjust phase and then press the **enter** button.
- The adjustment range of **PHASE** is 0 ~ 63.



Initializing (Reset to factory value)

- To initialize the adjusted value, select **RESET** with the **up/down** button and then press the **vol (▶)** button.

Picture In Picture (PIP) function

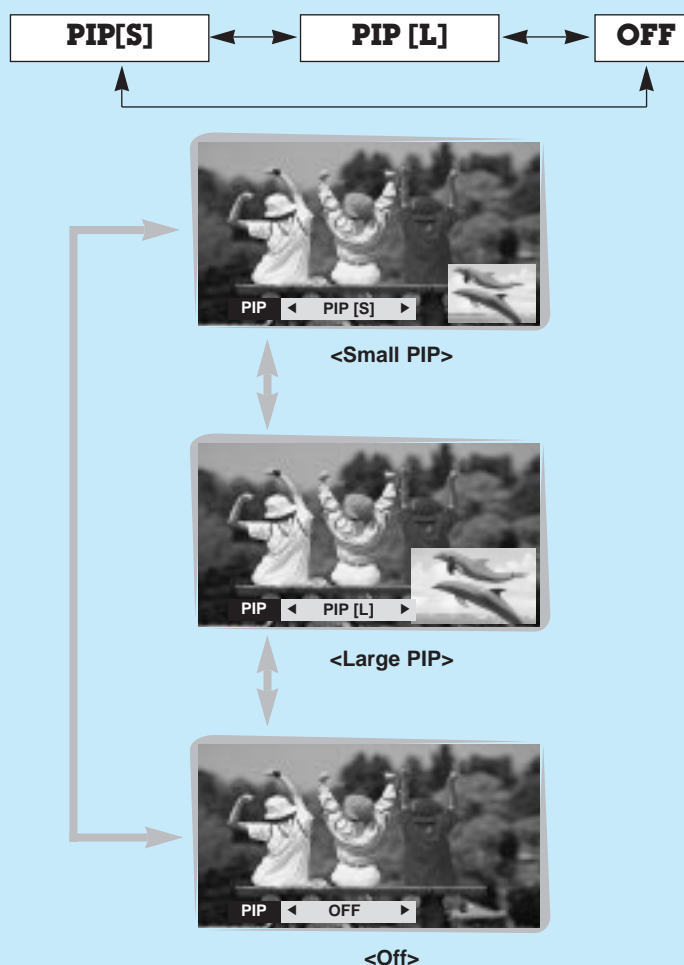
- PIP lets you view 2 different inputs (sources) on your monitor screen at the same time. One source will be large, and the other source will show a smaller inset image.
- Select **RGB** input source before pressing PIP.
- This function works only in the following resolutions;
640x480, 800x600, 1024x768 (only in Vertical frequency 60 Hz)
- When you select RGB or DTV for main picture in PIP/Twin picture, you can watch video, cable TV or DVD for sub picture.
- Color of main picture may be different from PIP's in PIP/Twin picture mode.
- If input source for main picture is changed while in PIP/Twin picture mode, sub picture will disappear.
- When watching PIP/Twin picture, **SCREEN** option is not available in Special menu.
- With PIP active, not all picture formats can be used for the main/sub picture.

● Watching the PIP (Picture in Picture)



Press the **pip** button.

- Each time you press **pip** or **vol** button, you can change the PIP size as below.



Picture In Picture (PIP) function

Selecting the source input signal

input select



Press the **input select** button in PIP mode.

- Each time you press **input select** button, you toggle between **VIDEO** and **COMPONENT**.



COMPONENT source only works in 480i mode.



Moving the Sub (inset) picture

position



Press the **position** button in PIP mode.

- Each press of the **position** button will change the position of the sub picture on the screen as shown below.



Selecting PIP sound options

- To select main or sub (inset) sound
- This function only works with the following resolutions;
640x480, 800x600, 1024x768 (only in Vertical frequency 60 Hz)
- To use this function, connect PC/DTV video output to RGB-PC INPUT/RGB-DTV INPUT and connect PC/DTV audio outputs to AUDIO INPUT.
- **SOUND SELECT** is always the main picture sound (**SOUND[M]**) regardless of prior sound choice.

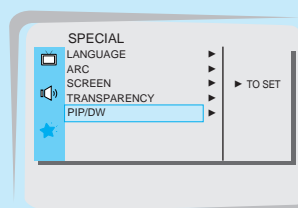
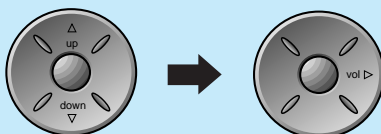


Press the **menu** button and then press the **up/down** button to select the **SPECIAL** menu.
Press the **vol (▶)** button.



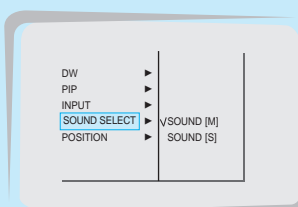
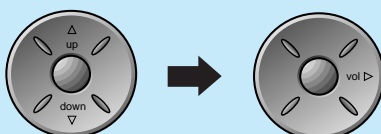
1

Use the **up/down** buttons to select **PIP/DW** and then press the **vol (▶)** button.



2

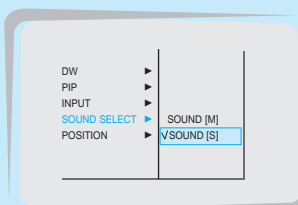
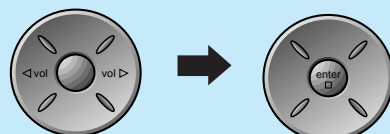
Use the **up/down** buttons to select **SOUND SELECT** and then press the **vol (▶)** button.



3

Press the **vol** buttons to select main image sound (**SOUND [M]**) or PIP (inset image) sound (**SOUND [S]**) and then press the **enter** button.

- Each time you press **▲ / ▼** button, you toggle between **SOUND [M]** or **SOUND [S]**.



Twin picture mode

- As the name suggests, this mode splits the screen into 2, allowing 2 sources to be shown on the monitor screen at the same time. Each source is given half the screen.
- Select **RGB** input source.
- This function works only in the following resolutions;
DTV 480p/720p/1080i, **RGB** 640x480 (only in Vertical frequency 60 Hz)
- With TWIN PICTURE active, not all picture formats can be used for the main/sub picture.

twin picture



Press the **twin picture** button.

- Each time you press **twin picture** or **vol** buttons, you can select **ON** or **OFF**.



<ON>



<OFF>

Main picture

Sub picture

- To avoid a permanent image being burned into the screen, the sub picture will move every 2 hours.

:Center ———> Upside
 ↑ ↓
Downside <— Center

- The sub picture starts in the center position and then moves as described above.
- You may notice a small amount of video noise at the bottom or top of the sub picture. This is normal.

Selecting a source for the Twin picture



Press the **input select** button in TWIN PICTURE mode.

- Each time you press **input select** button, you toggle between **VIDEO** and **COMPONENT**.

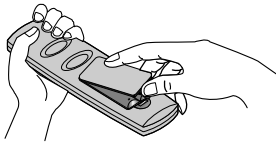


COMPONENT source only works in 480i input signal.



Using the remote control

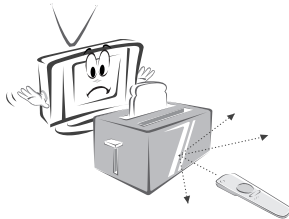
Installing batteries



- Open the battery compartment cover on the back of the remote control and insert the batteries with correct polarity, match “+” with “+”, and match “-” with “-”.
- Install two 1.5V “AA” alkaline batteries. Don’t mix used batteries with new batteries.

Notes for using the remote control

Make sure there are no objects between the remote control and its sensor.



Don't place the remote control near a heater or damp place. Strong impact on the remote control may cause operation failure.



Signal from the remote control may be disturbed by sun light or other strong light. In this case, turn the set to other direction.



Turning on the Monitor

- When using the remote control, aim it at its sensor on the Monitor.

Turning on the Monitor just after installation

- 1 Connect power cord correctly.
- 2 Press the main **ON/OFF** button on the Monitor. At this moment, the Monitor is switched to standby mode. Press the ϕ/I or **INPUT SELECT** button on the Monitor or press the **power on** or **video/pc** button on the remote control and then the Monitor will be turned on.

Turning on the Monitor (power cord is still connected)

- 1 **If the Monitor is turned off with the ϕ/I button on the Monitor**
Press the ϕ/I or **INPUT SELECT** button on the Monitor or press the **power on** or **video/pc** button on the remote control and then the Monitor will be turned on.
- 2 **If the Monitor is turned off with the ON/OFF button on the Monitor**
 - Press the main **ON/OFF** button on the Monitor to turn on the Monitor.
- 3 **If the Monitor is turned off with the remote control and also the ON/OFF button on the Monitor**
 - Press the main **ON/OFF** button on the Monitor and then press the ϕ/I or **INPUT SELECT** button on the Monitor or press the **power on** or **video/pc** button on the remote control and then the Monitor will be turned on.



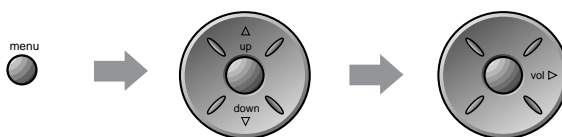
Tips

- **Adjusting volume level**
The volume(►) button increases the sound and the volume(◄) button reduces the level of sound.

Selecting language for the menus

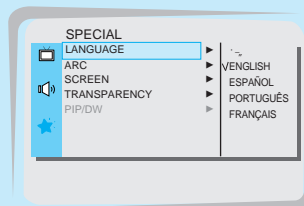
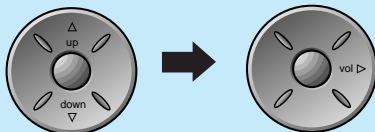


Press the **menu** button and then press the **up/down** button to select the **SPECIAL** menu.
Press the **vol (▶)** button.



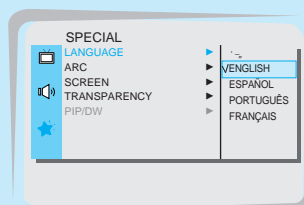
1

Press the **up/down** buttons to select **LANGUAGE** and then press the **vol (▶)** button.



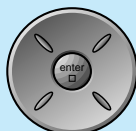
2

Press the **up/down** buttons to select the desired language.



3

Press the **enter** button to exit.



Checking features

- Use the remote control to make adjustments.
- Select **VIDEO** input source

menu



1

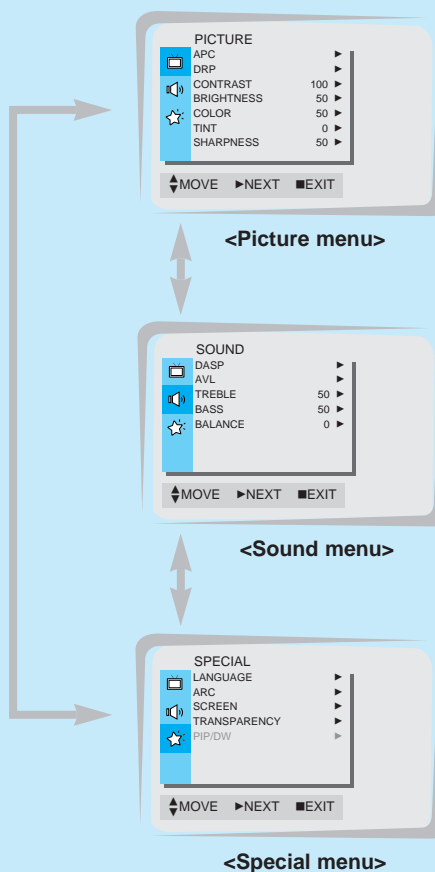
Press the **menu** button.



2

Press the **up/down** buttons.

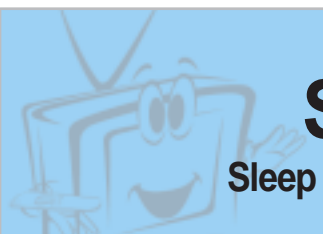
- Each press will cycle through the menus shown below.



3

Press the **vol (▶)** button to select a feature to adjust, and then press the **up/down** or **vol** buttons to adjust the selected item.

- Press the **enter** button to exit.

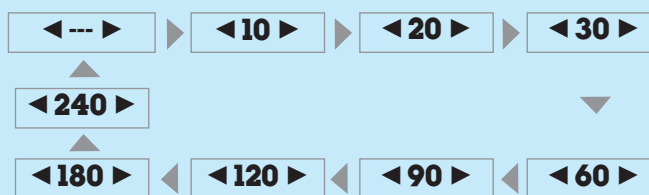


Setting Sleep Timer

Sleep Timer turns the Monitor off after a preset time



Press the **sleep** button to set sleep time.
Each time you press **sleep** button, the next preset setting time is changed as follows:



- To release sleep time setting, press the **sleep** or **vol** button repeatedly to select <--->.
- '⚠ **SLEEP 1**' will be displayed one minute before the Monitor is due to switch off.



Tips

- When the sleep time you want is displayed on the screen, don't press the **sleep** button. After 20 seconds, the screen display disappears and sleep time is set.
- To check remaining sleep time after setting, press the **sleep** or **enter** button just once.
- If you turn the Monitor off after setting the sleep timer, the setting is erased. The sleep timer will then have to be set again.

Auto picture control

Use APC to set the Monitor for the best picture appearance

- APC is not available in RGB or PIP/TWIN PICTURE modes.

APC (Auto Picture Control)

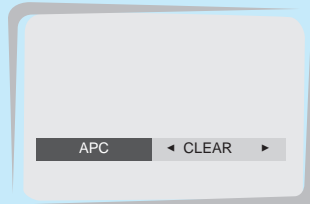


1

Press the **apc** button.

2

Press the **apc** or **vol** buttons to select your desired picture condition.



- Each press of **vol** buttons changes the screen display as shown below.



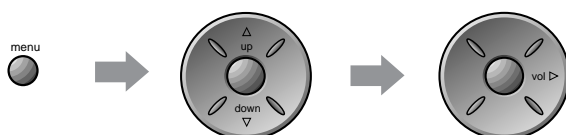
- You can also select **CLEAR**, **SOFT** or **USER** in the **PICTURE** menu. User refers to adjustments you made to the picture menu items. See next page.

Adjusting picture appearance

- PIP and Twin picture inset settings are not adjustable.

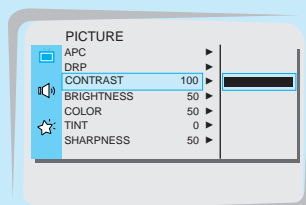
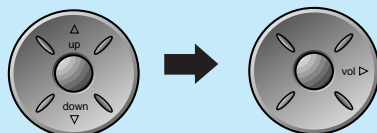


Press the **menu** button and then press the **up/down** button to select the **PICTURE** menu.
Press the **vol (▶)** button.



1

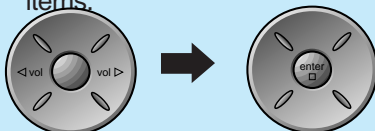
Example : Changing the contrast.
Press the **up/downs** button to select **CONTRAST** and then press the **vol (▶)** button.



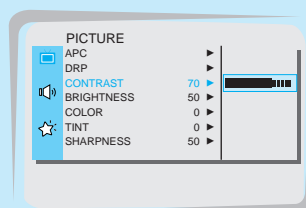
2

Use the **vol** buttons to make appropriate adjustments and then press the **enter** button.

- Press the **up/down** buttons to select other items.



- Adjust **BRIGHTNESS, COLOR, TINT** and **SHARPNESS** in the same way.



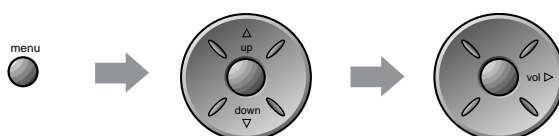
DRP (Digital Reality Picture)

DRP improves image outlines in dark screens.

- This function works in video, component 480i mode.

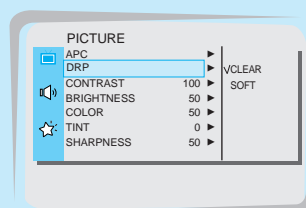
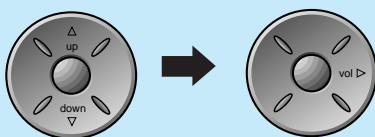


Press the **menu** button and then press the **up/down** button to select the **PICTURE** menu.
Press the **vol (▶)** button.



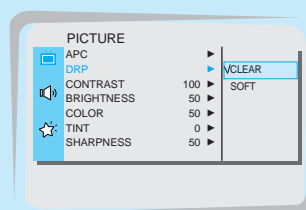
1

Press the **up/down** buttons to select **DRP** and then press the **vol (▶)** button.



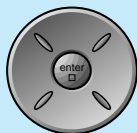
2

Press the **up/down** buttons to select **CLEAR** or **SOFT**.



3

Press the **enter** button to exit.

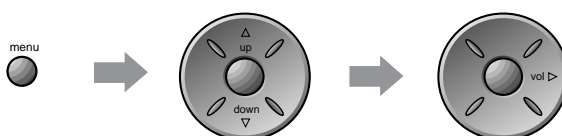


Using the screen options

- This function works only in the video mode.
- Use this option if there are a trembling or instability of a video tape on screen during viewing the video.

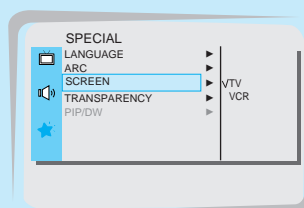
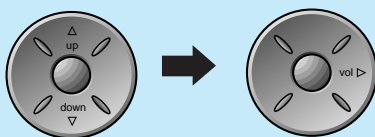


Press the **menu** button and then press the **up/down** button to select the **SPECIAL** menu.
Press the **vol (▶)** button.



1

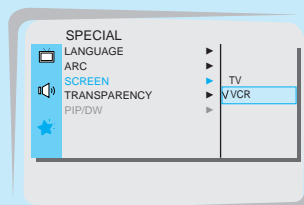
Use the **up/down** buttons to select **SCREEN** and then press the **vol (▶)** button.



2

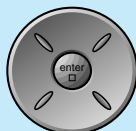
Use the **▲ / ▼** buttons to select **TV** or **VCR**.

- Select the **VCR** option if watching a VCR.
- Select the **TV** option for other equipment. (Except VCR)
- Each time you press the **▲ / ▼** button you toggle between **TV** and **VCR**.



3

Press the **enter** button to exit.



Adjusting sound

Manual setting

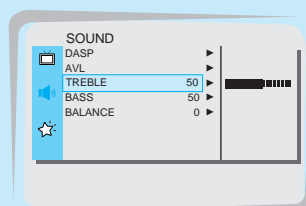
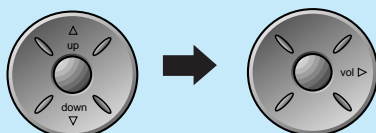


Press the **menu** button and then press the **up/down** button to select the **SOUND** menu.
Press the **vol (▶)** button.



1

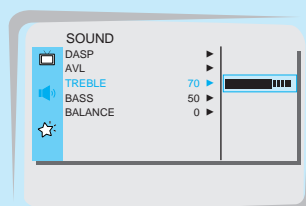
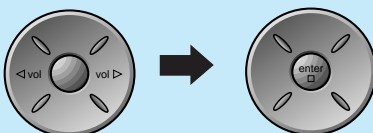
Example : Adjustment treble
Use the **up/down** buttons to select **TREBLE** and then press the **vol (▶)** button.



2

Use the **vol** buttons to make appropriate adjustment and then press the **enter** button to exit.

- Press the **up/downs** buttons to select other options.



- Adjust **BASS** and **BALANCE** in the same way.



Auto Sound Control



DASP (Digital Auto Sound Processing)

- This function lets you enjoy the best sound without any manual adjustment because the Monitor automatically selects the appropriate audio tone levels based on the program content.

easy sound



1

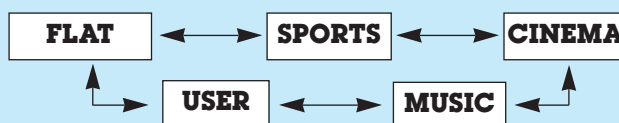
Press the **easy sound** button.

2

Press the **easy sound** or **vol** buttons to select a sound setup.



- Each press of **easy sound** or **vol** buttons changes the screen display as shown below.



- You can also select **FLAT**, **SPORTS**, **CINEMA**, **MUSIC** or **USER** in the **SOUND** menu.

AVL (Auto Volume Leveler)

This feature maintains an equal volume level; even if you change channels.

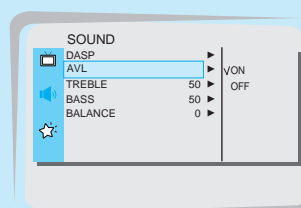
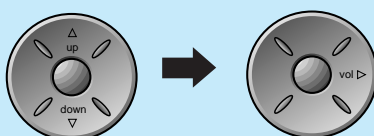


Press the **menu** button and then press the **up/down** buttons to select the **SOUND** menu.
Press the **vol (▶)** button.



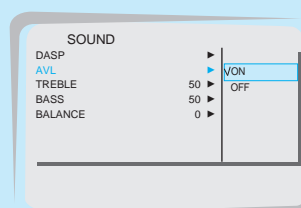
1

Press the **up/down** buttons to select **AVL** and then press the **vol (▶)** button.



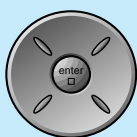
2

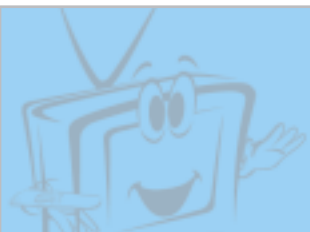
Press the **up/down** buttons to select **ON** or **OFF**.



3

Press the **enter** button to exit.





Using Still function

- This feature isn't available for RGB input source.
- Use with A/V or COMPONENT video inputs.



1

Press the **freeze** button.

- The image displayed is frozen(still).
- The sub picture is stilled in PIP or Twin picture mode.
- In PIP or TWIN PICTURE modes, the sub (inset) picture is frozen.



<Moving image>



<Still image>

2

To return to normal viewing, press the **freeze** button again.



Tips

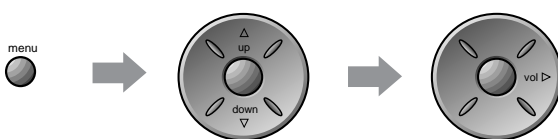
- If still picture is on the screen for more than 5 minutes, the image becomes dark.
If another function is activated, normal brightness of the screen is restored.
- This is a protective feature designed to reduce a ghost image burning into the monitor.
- This feature does not work with RGB source.

Adjusting OSD Transparency

To make the menus clear or opaque

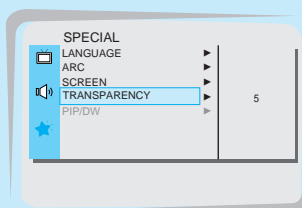
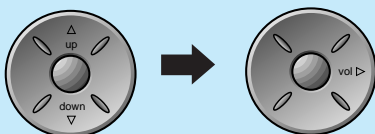


Press the **menu** button and then press the **up/down** button to select the **SPECIAL** menu.
Press the **vol (▶)** button.



1

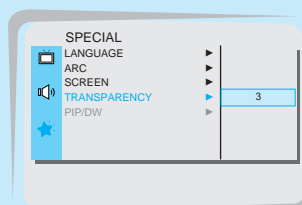
Press the **up/down** buttons to select **TRANSPARENCY** and then press the **vol (▶)** button.



2

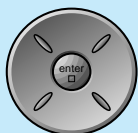
Press the **vol** buttons to adjust OSD transparency.

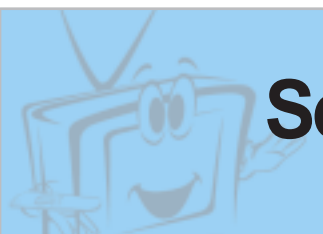
- The adjustment range of **TRANSPARENCY** is 0 ~ 5.



3

Press the **enter** button to exit.





Setting picture format

- With the RGB (PC/DTV) input, you can select either 16:9 or 4:3 screen aspect ratios.
- If 4:3 mode is used for a long time, the outline of the image may remain on the screen after you change to the 16:9 screen.
- Don't display 4:3 picture format or TWIN PICTURE for more than 10 hours continuously.



Press the **ratio** button to select a desired picture format.

- Each time you press **ratio** or **vol** buttons, you can select **16:9**, **4:3** or **ZOOM** alternatively.



- You can also select **16:9**, **4:3** or **ZOOM** in the **ARC** option of the **SPECIAL** menu.



Maintenance

- Early malfunction can be prevented. Careful and regular cleaning can extend the amount of time you will have with your new Monitor. Be sure to turn the power power off and unplug the power cord before you begin any cleaning.

Cleaning the screen

1. Here's a great way to keep the dust off your screen for a while. Wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it's almost dry, and then use it to wipe the screen.
2. Make sure the excess water is off the screen, and then let it air-dry before you turn on your Monitor.

Cleaning the cabinet

To remove dirt or dust, wipe the cabinet with a soft, dry, lint-free cloth. Please be sure not to use a wet cloth.

Extended absence



If you leave your Monitor dormant for a long time (such as a vacation), it's a good idea to unplug the power cord to protect against possible damage from lightning or power surges.



Troubleshooting check list

No picture & No sound

- Check whether the Monitor is turned on.
- Power cord inserted into wall outlet?
- Plug another product's power cord into the wall outlet where the Monitor's power cord was plugged in.

Picture OK & No sound

- Press the **VOLUME** (▶) button.
- Sound muted? Press **MUTE** button.

The remote control doesn't work

- Check to see if there is any object between the Plasma Display and the remote control causing obstruction.
- Check to see if the batteries are installed with the correct polarities. (Refer to p.30)
- Install new batteries. (Refer to p.30)

No or Poor color or Poor picture

- Select **COLOR** in the **PICTURE** menu and press the **VOLUME** (▶) button. (Refer to p.36)
- Increase the distance between the Monitor and the VCR.
- Activate any function to restore the brightness of the picture. (If still picture is on the screen for more than 5 minutes, the screen gets dark.)

No output from one of the speakers

- Adjust **BALANCE** in the **SOUND** menu. (Refer to p.39)



Product specifications

MODEL	MU-60PZ10/A/B/K/S
Width (inches / mm)	57.3 / 1455
Height (inches / mm)	34.8 / 883
Depth (inches / mm)	3.9 / 99
Weight (pounds / kg)	154.3 / 70
Power requirement	120V, 60Hz
Resolution	1280 x 720 (Dot)
Color	16,770,000 (256 steps of each R, G and B)
Temperature (In operation)	0 ~ 40°C
Humidity (In operation)	under 80%

- The specifications shown above may be changed without prior notice for quality improvement.